To: Deschambault, Lynda[Deschambault.Lynda@epa.gov]

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McCarthy[dave.mccarthy@copperenv.com]; Cohen, Adam[Adam.Cohen@dgslaw.com]

From: Mike Johnson

Sent: Thur 4/6/2017 1:06:31 AM

Subject: Leviathan Mine Aspen Seep Bioreactor update

Lynda,

We wanted to give a brief update on current events at the Aspen Seep Bioreactor. We have been remotely monitoring the Aspen Seep Bioreactor and have been watching the flows increase steadily. In the last day we have seen a slight increase in the water elevation of Pond 4. This indicates that our influent flow rate is out pacing our effluent flow rate. Since a significant storm is forecasted, we are planning to attempt to access the site tomorrow to address the pond 4 water elevation and effluent flow rate. We still have roughly 75,000 gallons of storage available and our effluent flow rate is averaging 26 gpm. As currently configured, the maximum design flow capacity of the ASB Treatment System is 27 gpm. If we can gain safe access, we will complete the following tasks to protect against a possible exceedance of Pond 4 storage capacity:

• LULULU Check for and remove any obstructions to flow at the Pond 4 effluent launder.
•□□□□□□□ Pump water from near the effluent launder of pond 4 to the aeration channel to lower Pond 4 elevation.
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flowmeter. Although we will not be able to directly monitor the effluent flow rate while the flow meter is disconnected, we will still be monitoring the influent flow rate, so we will still have a good indication of total flow through the ASB Treatment System. These plumbing modifications

We don't anticipate these changes to negatively impact water quality of our discharge since Pond 4 is a final settling pond. Our site access may require some snowshoeing, so we are postponing compliance samples until we complete road work scheduled next week. Taking the compliance samples at that time should still give a representative sample.

will not otherwise affect our ability to control the system components.

Thanks,

Mike Johnson, PE

Senior Engineer

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